

Appendix 4: Vaccination studies with a non-significant (NS) difference in absenteeism rates in vaccinated group

Author/s	Cohen et al.	Morales et al.	Millot et al.	Dille	Spurzem
Publication year	2003	2004	2002	1999	1996
Study location	Australia	Columbia	France	USA	USA
Sample population	597 manufacturing company employees	759 bank employees	3663 natural gas company employees at different sites	1720 Hanford employees	738 school district employees
Study type	Prospective/interventional	Prospective/interventional	Prospective/observational	Retrospective/observational	Retrospective/observational
Study duration	Apr 2000 – Nov 2000 (flu season only)	Oct 2000 – May 2001 (flu season only)	Oct 1996 – Apr 1997 (flu season only)	Oct 1994 – May 1995 (flu season only)	Oct 1995 – May 1996 (flu season only)
Intervention (n)	Influenza vaccine (301)	Influenza vaccine (424)	Vaccinated status (301)	Vaccinated status (789)	Vaccinated status (263)
Control (n)	None (296)	None (335)	Non-vaccinated status (3663)	Non-vaccinated status (931)	Non-vaccinated status (475)
Absence outcome in vaccinated group	Pro-rata sick days for febrile illness: 0.0047 in non-vaccinated group and 0.0019 in vaccinated group (p value not stated)	0.1% lower ILI (NS)	2.6% lower (NS)	28% lower ILI (NS)	0.1% lower (NS)
Other outcomes in vaccinated group	No significant difference in ILI illness incidence 6.5% lower febrile illness incidence (p= 0.041)	24.8% lower ILI incidence (p< 0.0001)	2.6% lower clinically diagnosed ILI incidence (N.S.) 7% higher self-diagnosed ILI incidence (NS)	19% lower ILI incidence (NS)	N/A
Net savings/costs	ILI illness: savings of \$20.93AU per vaccinated employee Febrile illness: savings of \$58.36AU per vaccinated employee	Savings of \$6.4USD – \$25.8 per vaccinated employee if presenteeism taken into account Savings of \$89.3-\$237.8USD if operating income is considered	N/A	Savings of \$83.34USD per vaccinated employee	N/A
Randomisation	Yes	No	Yes (method not mentioned)	Yes	No
Blinding	No	No	No	No	No
Data collection method	Self-report every two months	Self-report monthly	Sick leave records/medical certificates with participant clarification	Self-report at end of study	School records
Limitations	Limited duration Did not achieve calculated sample size	Limited duration Significantly different cohort demographics	Limited duration Significantly different cohort demographics Self-reported vaccination status	Limited duration Did not achieve calculated sample size	Limited duration Self-reported vaccination status

ILI = Influenza like illness NS = non significant USD = US dollars